Job Risk Analysis

Name(s) of Risk Team Members: P. Cirnigliaro	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Biological Material Work Job Number or Job Identifier: JRA 11b-05	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Cell Work at NSRL	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedures List (optional): C-A Radiobiology Training Approved by: *E. Lessard* Date: 4/7/054 Rev. #: 0	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple

Stressors (if applicable, please list all):	Reason for Revision (if applicable): Date added.	Comments:

				Before Additional Controls						After Additional Controls						
Job Step / Task	Hazard	Control(s)	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	Control(s) Added to Reduce Risk	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	% Risk Reduction
Transport by vehicle animal samples to and from Medical/.Biology Dept. to NSRL	Highway accident	Training and compliance with BNL's traffic safety rules, BNL onsite Transfer/Safety Assessment.	Y	1	2	3	3	18								
Remove biological materials from transport vehicle.	Falls on same level	Proper footwear, housekeeping.	N	1	2	3	3	18								
Store biological material in incubators	Use of compressed CO_2 bottles.	Compressed gas awareness training in C-A Radiobiology training, work area ventilation.	N	1	2	2	3	12								
Prepare biological materials for exposure.	Chemical exposure	Work Planning, Experiment Safety Reviews, use of local ventilation, use of PPE.	N	1	2	3	3	18								
Prepare biological materials for exposure.	Exposure to biological materials.	Work Planning, Experiment Safety Reviews, use of local ventilation, use of PPE.	N	1	2	1	2	4								
Transport biological materials from C lab to NSRL target room	Ionizing radiation exposure	Work planning, Training, Access Control System, RWP.	N	1	2	1	2	4								

Remove biological materials from target room to C lab.	Ionizing radiation exposure from activation products	Work planning, Access Control System, RWP.	N	1	2	1	2	4									
Manipulation of biological materials after radiation exposure.	Ionizing radiation exposure from activation products	Allow for decay before manipulation of materials, work planning, Access Control System, RWP.	N	1	2	1	1	2									
Manipulation of biological materials after radiation exposure.	Chemical exposure	Use of PPE, use of local ventilation, allow for decay before manipulation of materials, work planning, Access Control System, RWP.	N	1	2	3	3	18									
Further Description of Controls Added to Reduce Risk:																	

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable